(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau

[WIPO]

[Bar Code]

(43) International Publication Date

June 9, 2005 (06/09/2005)

PCT

(10) International Publication Number

(51) International Patent Classification⁷:

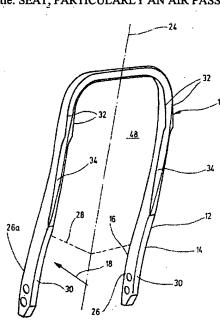
WO 2005/051764 A1

- B60N 2/65
- B64D 11/06,
- (21) International Application No.: PCT/EP2004/010986
- (22) International Filing Date: September 28, 2004 (09/28/2004)
- (25) Language in which the international application was originally filed: German
- (26) Language in which the international application is published:
- (30) Priority Data: November 5, 2003 (11/05/2003) DE 103 51 692.1
- (71) Applicant (for all designated states except the U.S.): RECARO AIRCRAFT SEATING GMBH & CO. KG [DE/DE]; Daimlerstrasse 21, 74523 Schwäbisch Hall (DE).

- (72)Inventor; and
- (75)Inventor/Applicant (U.S. only): KRAUTH, Hubert [DE/DE]; Kübelrainstrasse 51, 74535 Mainhardt (DE). FORGATSCH, Oliver [DE/DE]; Flachswiesenstrasse 16, 71364 Winnenden (DE). NOWAK, Andreas [--/DE], Lilienweg 5, 71546 Aspach (DE).
- Representative: BARTELS AND PARTNER; Lange Strasse 51, 70174 Stuttgart (DE).
- Designated States (unless indicated otherwise, for each available type of national protective right): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,

[continued on next page]

(54) Title: SEAT, PARTICULARLY AN AIR PASSENGER SEAT



WO 2005/051764 A1

- (57) Abstract: The invention relates to a seat, particularly an eir passenger seat, comprising a seat ert and a backrest, which has a backrest element (10) with an arched, one-piece frame part (12) consisting of at least one hollow profile (14). In order for the frame part (12) to have, at least in part, at least one additional hollow profile (16) and for the adjoining hollow profiles (14, 16) to be situated one behind the other in the normal direction of movement (flying direction (18)) of the seat, the backrest element is reinforced in the relevant areas in such a manner that, even in the event of a crash. the base frame structure remains intact.
- (57) Zusammenfassung: Die Erlindung betrifft einen Sitz. insbesondere Fluggastsitz, mit einem Sitzteil und einer Rückenlehne, die ein Rückenlehnenelement (10) aufweist mit einem gebogenen, einstückigen Rahmenteil das aus mindestens einem Hohlprofil (14) besteht. Dadarch, dass zumindest teilweise das Rahmenteil (12) mindestens ein weiteres Hohlprofil (16) aufweist und dass die aneinandergrenzenden Hohlprofile (14, 16) in üblicher Bewegungsrichtung (Flugrichtung 18) des Sitzes hintereinanderliegend angeordnet sind, ist das Rückenlehnenelement in den relevanten Bereichen derart ausgesteist, dass selbst im Crashfall die Grundrahmenstruktur erhalten bleibt.

PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless indicated otherwise, for each available type of national protective right): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European Patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

With International Search Report.

Reference is made for an explanation of the two-letter codes and the other abbreviations to the Guidance Notes on Codes and Abbreviations in the front section of each regular PCT Gazette edition.